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1 November 1955



Perman
 Designation Assignment to Agency Pericular
 Infrared Communications System

DOCUMENT NO. *78*NO CHANGE IN CLASS. ☐☐ DECLASSIFIEDCLASS. CHANGED TO: TS *D2010*

NEXT REVIEW DATE:

AUTH: HR 70-2

DATE: *2/6/88* REVIEWER: *010588*

1. Nomenclature for outstanding infrared communications systems currently under development are assigned as follows:

NOMENCLATUREDESCRIPTION

IS-1 (System)

Long range portable base station transceiver, suitable for 24-hour operation

Range	6-8 miles
Weight	30 pounds
Dimensions	18" x 15" x 7"
Alignment	Cunsight telescope and nighttime viewer and audible tone
Source	Tungsten (30 watts)
Modulation	Mechanical
Detector	Lead Sulfide
Power	Self-contained Yardney Silvercells plus charger

IS-1A (System)

Modified IS-1. This unit is identical to the IS-1, except for removal of nighttime viewer and modified tripod for briefcase dimensions.

IS-2 (System)

Agent short range equipment, suitable for nighttime use only. Equipment consists of separate transmitter and receiver.

IS-2 (Receiver)

IS-2 (Transmitter)

Range	1/2 - 3/4 mile
Weight	2 1/2 pounds
Dimensions	Flash light, 11" long; Case, 2" diameter; Case head, 3" diameter (2 units)
Alignment	No provision
Source	Tungsten
Modulation	Electrical
Power	Dry Cells

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CONFIDENTIAL**IS-3 (System)**Medium Range Infrared Transceiver
for nighttime operation only.

Range	2 1/2 - 3 miles
Weight	7 1/2 pounds plus NiCd Batteries
Dimensions	13" x 8" x 4" (Battery 13" x 5" x 4 1/2")
Alignment	Audible tone
Source	Cesium Vapor Lamp
Modulation	Electrical
Detector	Thallous Sulfide
Power	NiCd Rechargeable batteries

IS-4 (System)Briefcase Infrared Transceiver capable
of 24-hour operation

IO-4 Optical Unit
IP-4 Amplifier
and Power
Supply Unit

Range	3/4 miles between units, 3 miles to Base Station Unit
Weight	17 Pounds
Dimensions	Optical Unit: 7" x 4 1/2" x 3 1/4" Amplifier and Power Supply: 9 3/4" x 10 3/8" x 3 1/2"
Source	Tungsten (10 watts)
Modulation	Mechanical
Detector	Lead Sulfide
Alignment	Audible tone and gunsight telescope

2. The SigC will assign nomenclature to their Infrared Telephone within a week. No nomenclature is being assigned to the compact Short Range system to be developed by Raytheon; however, for convenience it may be referred to as a "P" unit until such time as the assignment of nomenclature is considered feasible.

3. concurs with the above designations.

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R&D-EP/CEM/wlm

(1 November 1955)

cc: Monthly Report (2)
R&D Subject File
Dev-ep

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